

M 5.4, Off the coast of southern Peru

Origin Time: 2023-08-18 10:27:55 UTC (Fri 05:27:55 local)
Location: 16.0718° S 75.0613° W Depth: 23.2 km

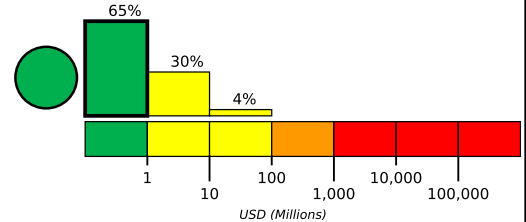
PAGER
Version 4

Created: 3 weeks, 6 days after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

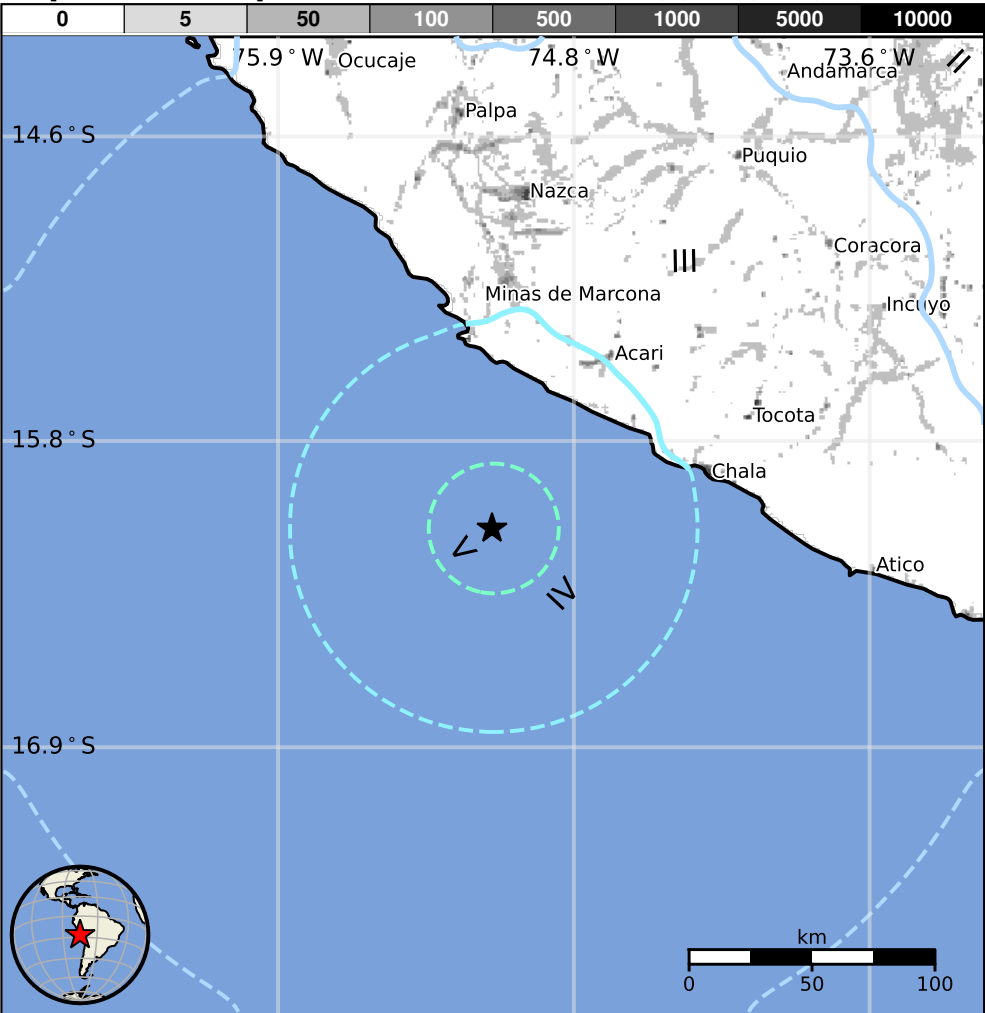


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	232k	20k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are mud wall and reinforced/confined masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-12-04	292	5.8	VI(32k)	2
1981-04-18	336	5.5	VI(193k)	8
2007-08-15	342	8.0	VIII(493k)	514

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Lomas	<1k
IV	San Juan de Marcona	<1k
IV	Yauca	<1k
IV	Acari	4k
IV	Chala	<1k
III	Minas de Marcona	15k
III	Nazca	24k
III	Palpa	6k
III	Coracora	7k
III	Puquio	10k
III	Tambo	5k